

IFWsrch.txt

<http://www.google.com/>
"point-mass-on-sliders moving radially outward"
"SD/FAST User's Manual" spacecraft
"SD/FAST" spacecraft reflector
"SD/FAST" spacecraft "L-band" antenna
"SD/FAST" spacecraft antenna
"SD/EXACT" +pdf spacecraft antenna
"SD/FAST" "SD/EXACT" antenna
SYMBA spacecraft reflector OR antenna

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	14	Che-Hang.in. Ih.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/30 13:29
S2	0	((point\$1mass\$1on\$1slider or (point mass on slider)) mov\$3 radial\$2 outward)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/10/30 17:14
S4	7	((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (spacecraft space\$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air\$1craft) with ((L\$1band adj antenna) (reflector with boom) payload pay\$1load) with (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 17:20
S5	44	((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (spacecraft space\$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air\$1craft) with antenna with (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 17:22
S6	14	(S4 S5) and (((deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (packed packing pack stored storing store stow stowed collapse collapsed collapsing collapsable) with (measure measured measurement measuring parameter parameterization)) (time near2 (variable varying varies dependent dependends)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 17:39
S7	21	(S4 S5) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 17:39
S8	10	S6 S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/30 17:29

EAST Search History

S9	19	("5355138" "5400036" "5697050").PN. OR ("5790071").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:34
S10	16	("3100264" "3127516" "4621329" "4740681" "4944587" "5177686" "5223702" "5348255").PN. OR ("6102338").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:36
S11	21	("3100264" "3127516" "4621329" "4740681" "4758957" "4944587" "5177686" "5205518" "5223702" "5279483" "5348255" "5508932" "5562266" "6020956" "6047226").PN. OR ("6227496").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:37
S12	26	(S9 S10 S11) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 17:50
S13	4	(S9 S10 S11) and (((deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopic tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (packed packing pack stored storing store stow stowed collapse collapsed collapsing collapsable) with (measure measured measurement measuring parameter parameterization)) (time near2 (variable varying varies dependent dependends)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 17:50
S14	25	("5108050" "5109346" "5204818" "5348255" "5396326" "5412574" "5556058" "5562266" "5672872" "5749545" "5783825" "5790071" "5821526" "5852792" "5984238" "6047226" "6108593" "6108594" "6131058" "6145790" "6227496" "6236939" "6266616" "6272432").PN. OR ("6691033").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:47
S15	46	("3414214" "4567485" "4599619" "4630058" "4901307" "4910524" "4910792" "5010317" "5070338" "5073900" "5081703" "5109390" "5119225" "5216427" "5233626" "5239671" "5258764" "5303286" "5339330" "5410728" "5415368" "5422647" "5433726" "5439190" "5446756" "5448623" "5621415" "Re32905").PN. OR ("5697050").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:48
S16	26	("5100084" "5109346" "5141177" "5259577" "5323322" "5335179" "5348255" "5452869" "5562266" "5582368" "5614897" "5672872" "5686719" "5751853").PN. OR ("6047226").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:49
S17	25	("5108050" "5109346" "5204818" "5348255" "5396326" "5412574" "5556058" "5562266" "5672872" "5749545" "5783825" "5790071" "5821526" "5852792" "5984238" "6047226" "6108593" "6108594" "6131058" "6145790" "6227496" "6236939" "6266616" "6272432").PN. OR ("6691033").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:49
S18	45	(S14 S15 S16 S17) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:05

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S19	27	(S14 S15 S16 S17) and (((deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (packed packing pack stored storing store stow stowed collapse collapsed collapsing collapsable) with (measure measured measurement measuring parameter parameterization)) (time near2 (variable varying varies dependent dependends)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:05
S20	10	(S12 S13 S18 S19) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:06
S21	18	("5020744" "5255879" "5412574" "5508932" "5597142" "5745869" "5826828" "5865402" "5919314" "6019320" "6266585" "6266616" "6463366" "6470270" "6512979" "6588708" "6691033" "6945500").PN. OR ("7062363").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:59
S22	33	("3813067" "4119972" "4358076" "4725024" "4931942" "5020744" "5042752" "5080307" "5100084" "5139218" "5140525" "5257759" "5349532").PN. OR ("5556058").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 17:59
S23	22	("3599495" "4393710" "4437047" "4869092" "5277385" "5279483" "5421187").PN. OR ("5562266").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:00
S24	8	("3681583" "5205518" "5259577" "5308024").PN. OR ("6020956").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:01
S25	30	("3866025" "3937423" "3998409" "4071211" "4807835" "5100084" "5222023" "5225885" "5337241" "5400033" "5452869" "5485156" "5546309" "5556058" "5687933" "5698842" "5721431" "5738309" "5806804" "5862495" "5899945" "5914483" "5931421").PN. OR ("6108593").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:02
S26	8	("5745869").PN. OR ("6266616").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:02
S27	9	("4801202" "5109346" "5687084" "5821526" "5852792" "6047226" "6108594" "6113034").PN. OR ("6417798").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:03
S30	70	(S21 S22 S23 S24 S25 S26 S27) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:11

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S31	20	(S21 S22 S23 S24 S25 S26 S27) and (((deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopicable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (packed packing pack stored storing store stow stowed collapse collapsed collapsing collapsable) with (measure measured measurement measuring parameter parameterization)) (time near2 (variable varying varies dependent dependends)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:12
S32	8	(S21 S22 S23 S24 S25 S26 S27) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:12
S33	54	("4521855" "4617634" "4728061" "4754280" "4786018" "4807835" "4837699" "4883244" "4944587" "5020744" "5062051" "5109346" "5412574").PN. OR ("5546309").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:10
S34	9	("5123617" "5201833" "5308024" "5850992" "6020956" "6089508" "6298289" "6456907" "RE37374").PN. OR ("6536713").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:11
S35	46	(S33 S34) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:12
S36	20	(S33 S34) and (((deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopicable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (packed packing pack stored storing store stow stowed collapse collapsed collapsing collapsable) with (measure measured measurement measuring parameter parameterization)) (time near2 (variable varying varies dependent dependends)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:12
S37	3	(S33 S34) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 18:12
S38	28	(US-20040193292-\$ or US-20050230559-\$ or US-20050246074-\$ or US-20040122637-\$).did. or (US-6990396-\$ or US-7025307-\$ or US-6138953-\$ or US-5152482-\$ or US-5271582-\$ or US-6684182-\$ or US-5790071-\$ or US-6102338-\$ or US-6227496-\$ or US-5697050-\$ or US-6047226-\$ or US-6691033-\$ or US-5119225-\$ or US-5556058-\$ or US-5562266-\$ or US-6020956-\$ or US-6108593-\$ or US-6266616-\$ or US-6417798-\$ or US-7062363-\$ or US-5546309-\$ or US-6266585-\$ or US-6536713-\$).did. or (US-3127516-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:14

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S39	4	S38 and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll)) and (((deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (packed packing pack stored storing store stow stowed collapse collapsed collapsing collapsable) with (measure measured measurement measuring parameter parameterization)) (time near2 (variable varying varies dependent dependends))) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 20:02
S40	0	S39 and ((ellipsis elliptic elliptical) near2 (cylindrical cylindric cylinder))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:16
S41	0	S39 and (spherical spheric sphere cylindrical cylindric cylinder ellipsis elliptic elliptical diamond umbrella)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:22
S42	0	S38 and ((ellipsis elliptic elliptical) near2 (cylindrical cylindric cylinder))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:16
S43	9	S38 and (spherical spheric sphere cylindrical cylindric cylinder ellipsis elliptic elliptical diamond umbrella)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:16
S44	0	S38 and ((shell with model) shell\$1model)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:17
S45	0	S39 and ((antenna (reflector with boom) payload pay\$1load) with (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:22
S46	11	S38 and ((antenna (reflector with boom) payload pay\$1load) with (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 18:22
S47	0	S39 S46	US-PGPUB; USPAT; USOCR	AND	ON	2006/10/30 18:22

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S48	0	S38 and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) with (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable)) and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 19:56
S49	0	S38 and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) with ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) with (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) with (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 20:03
S50	0	S38 and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) same ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) same (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) same (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 20:04

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S51	10	S38 and ((simulat\$3 predict\$3 model\$4 algorithm (SD\$1FAST with PTC) estimat\$3 software soft\$1ware "soft ware" (((finite adj2 element) "finite element" finite\$1element) adj2 analysis) FEA NASTRAN SYSNOISE ABAQUS) and ((center near2 mass near2 (movement motion change changed changing speed orbit fly flight flying flew)) dynamic dynamically ((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) and (deployed deploy deploying deployable expandable expanded expand expanding extend extended extendable extending bloom bloomed blooming ((spread spreading) adj out) distribute distributed distributable telescope telescoped telescoping telescopable tele\$1scope tele\$1scoped tele\$1scoping tele\$1scopable) and (((rotate rotated rotation rotational rotating) with (translate translated translation translational translating)) attitude pitch roll) WITH (position relative) WITH reference))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 20:07
S52	2	S43 S46 S51	US-PGPUB; USPAT; USOCR	AND	ON	2006/10/30 20:07
S53	28	(US-20040193292-\$ or US-20050230559-\$ or US-20050246074-\$ or US-20040122637-\$).did. or (US-6990396-\$ or US-7025307-\$ or US-6138953-\$ or US-5152482-\$ or US-5271582-\$ or US-6684182-\$ or US-5790071-\$ or US-6102338-\$ or US-6227496-\$ or US-5697050-\$ or US-6047226-\$ or US-6691033-\$ or US-5119225-\$ or US-5556058-\$ or US-5562266-\$ or US-6020956-\$ or US-6108593-\$ or US-6266616-\$ or US-6417798-\$ or US-7062363-\$ or US-5546309-\$ or US-6266585-\$ or US-6536713-\$).did. or (US-3127516-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:21
S54	3	S53 and (((one single) with body) one\$1body single\$1body) with (antenna (reflector with boom) payload pay\$1load))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:23
S55	0	S53 and (((one single) with body) one\$1body single\$1body) with model\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:48
S56	13	("4306692" "4325124" "4949922" "5312073" "5626315" "5816540" "5850992" "5906339" "6032903" "6076773" "6138953" "6463365" "6484973").PN. OR ("6990396").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:40
S57	8	("4325124" "4949922" "5816540" "5906339" "6032903" "6076773" "6463365" "6484973").PN. OR ("7025307").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:42
S58	13	S56 S57	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:42
S59	3	S53 and (body with model\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 18:48